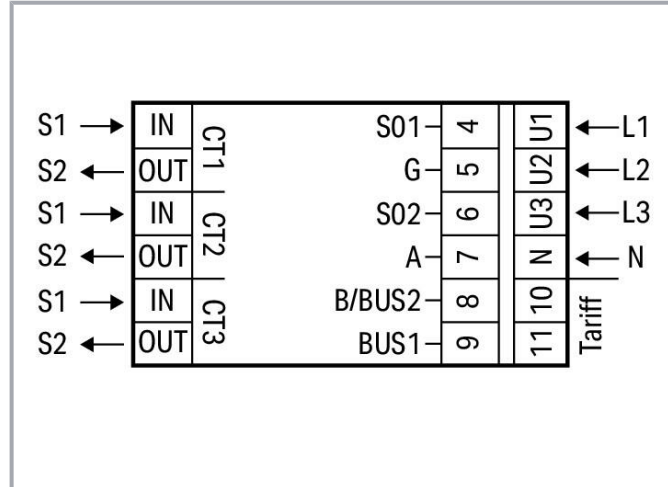


Data sheet | Item number: 879-3040

Energy meter (MID); for transformer connection; 1 A / 5 A; 3x230/400V;
50Hz; Modbus® and M-Bus; 2 x S0 interface; 2PU CT



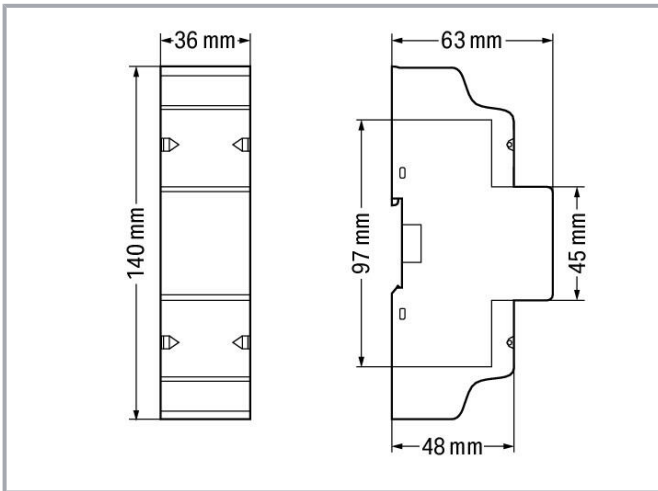
www.wago.com/879-3040



Subject to changes. Please also observe the further product documentation!

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Item description

Short description:

Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. They use push-in connection technology with a lever, making them connect quickly and easily. Versions for current transformers are even slimmer at only 35 mm. These slim profiles save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency, as well as current, voltage and power for all phases. And the user can conveniently scan all of these energy characteristics at a glance on a large, illuminated display.

Features:

- Push-in CAGE CLAMP® and lever save time at every stage
- Real space savings: 35 mm wide (2PUCT)
- Measurement of supply and purchase
- Energy measurement in four tariffs
- The communications pro: M-Bus/Modbus® interface and two SO pulse outputs
- Full transparency at a glance: display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: touch-sensitive controls and configuration app via *Bluetooth*®

Data

Technical data

Configuration

Configuration options

Touch-sensitive controls

Configuration app via *Bluetooth*®

Subject to changes. Please also observe the further product documentation!

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Input

Input signal type	Voltage Current
Network configuration	Two-wire, three-wire and four-wire networks
Nominal input voltage $U_{i\text{nom}}$	3 x AC 230 ... 400 V
Input voltage range	$\pm 20\%$
Reference current I_{ref}	1 A
Input current I_i	≤ 5 A
Current transformer (secondary)	1 A 5 A
Current transformer ratio	1:1 ... 9999 : 1 / 5:5 ... 9995 : 5
Frequency range	45 ... 60 Hz

Communication

Communication	Modbus [®] M-Bus <i>Bluetooth</i> [®]
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC
Indicators	LCD with backlight

Signaling and Communication

Communication	Modbus [®] M-Bus <i>Bluetooth</i> [®]
Configuration options	Touch-sensitive controls Configuration app via <i>Bluetooth</i> [®]

Signal Processing

Measured variables (calculated)	Active and reactive energy in supply and reference direction
Measurement type (load profile)	No

Measurement Error

Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years

Subject to changes. Please also observe the further product documentation!



Supply

Power supply type	Via measurement circuit
Power consumption P_{max} (phase; active power)	2 W
Power consumption P_{max} (phase; apparent power)	10 VA

Safety and protection

Dielectric strength	4 kV; 1 min
Impulse withstand voltage (1.2/50 μ s)	6 kV
Pollution degree	2
Protection type	IP51 / IP20; IP51 (front side); IP20 (connection)
Protection class	II

Connection data

Connection type 1	Voltage/current
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2604 Series
Actuation type	Lever
Solid conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ²
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Connection type 2	Communication/rate control input
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2604 Series
Actuation type 2	Lever
Solid conductor 2	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor 2	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 ... 2.5 mm ²
Strip length 2	9 ... 11 mm / 0.35 ... 0.43 inches

Physical data

Width	36 mm / 1.417 inches
Height	97 mm / 3.82 inches

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Depth	63 mm / 2.48 inches
Note (dimensions)	Height with cover: 140 mm

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Housing material	PC 940A
Weight	165 g

Environmental requirements

Ambient temperature (operation at U_N)	-40 ... +70 °C
Relative humidity	≤ 75% (during storage ≤ 95 %)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 50470-1/3 MID-compliant

Commercial data

ETIM 8.0	EC002048
ETIM 7.0	EC002048
PU (SPU)	1 pcs
Packaging type	box
Country of origin	CN
GTIN	4066966177299
Customs tariff number	90283019000

Optional accessories

Current transformers

Plug-in current transformer



Item no.: 855-405/600-509

Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes

www.wago.com/855-405/600-509

Subject to changes. Please also observe the further product documentation!



Item no.: 855-405/500-509

Plug-in current transformer; Primary rated current: 500 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-405/500-509



Item no.: 855-405/750-509

Plug-in current transformer; Primary rated current 750 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-405/750-509



Item no.: 855-405/250-209

Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-405/250-209



Item no.: 855-405/300-509

Plug-in current transformer; Primary rated current 300 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-405/300-509



Item no.: 855-405/200-209

Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-405/200-209



Item no.: 855-405/400-509

Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-405/400-509



Item no.: 855-305/300-509

Plug-in current transformer; Primary rated current 300 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/300-509



Item no.: 855-305/400-509

Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/400-509



Item no.: 855-305/500-509

Plug-in current transformer; Primary rated current: 500 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/500-509



Item no.: 855-305/600-509

Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/600-509

Item no.: 855-305/750-509

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Plug-in current transformer; Primary rated current 750 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/750-509



Item no.: 855-305/100-209
Plug-in current transformer; Primary rated current: 100 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/100-209



Item no.: 855-305/150-209
Plug-in current transformer; Primary rated current: 150 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/150-209



Item no.: 855-305/200-509
Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/200-509



Item no.: 855-305/250-509
Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes www.wago.com/855-305/250-509

Downloads

Documentation

Manual

Product Manual WAGO Energy Meters (MID) 4PS / 4PU /2PU CT	V 1.6 Sep 26, 2022	pdf 3.8 MB	Download
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Bid Text

879-3040 X81 - Datei		xml 7.0 kB	Download
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879-3040 docx - Datei		docx 30.2 kB	Download
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ausschreiben.de 879-3040		URL	Download
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Instruction Leaflet

Energy consumption meter	V 1.15 Feb 16, 2022	pdf 956.8 kB	Download
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Application Notes

Application Note e!COCKPIT

e!COCKPIT Application Note WagoAppPowerMeasurement	2021-11-08	pdf	Download
This Application Note describes the use of the library WagoAppPowerMeasurement under different boundary conditions.	Dec 6, 2021	953.0 kB	

Libraries

e!COCKPIT libraries

e!COCKPIT Library Description WagoAppPowerMeasurement	1.7.4.0	pdf	Download
	May 25, 2021	1.4 MB	

CAD/CAE-Data

CAD data

2D/3D Models 879-3040	URL	Download
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CAE data

ZUKEN Portal 879-3040	URL	Download
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EPLAN Data Portal 879-3040	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 879-3040	URL	Download
Energy meter (MID); for transformer connection; 1 A / 5 A; 3x230/400V; 50Hz; Modbus® and M-Bus; 2 x S0 interface; 2PU CT		

Installation Notes

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